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PTO/SB/21 (07-06)

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			Application Number	10/065,967	
TRANSMITTAL			Filing Date	12/05/2002	
	FORM  (to be used for all correspondence after initial filing)		First Named Inventor	Yung-Huei Chen	
			Art Unit	2816	
			Examiner Name	RUBIN MARGARET R	
	Total Number of Pages in This Submission	8	Attorney Docket Number	VIAP0062USA	

	<del></del>		ENCLOSURES (Check al	I that apply)		
	Amendme	ee Attached ent/Reply fter Final	Drawing(s)  Licensing-related Papers  Petition Petition to Convert to a Provisional Application Power of Attorney, Revocati		After Allowance Communication to TC  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information	
Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Reply to Missing Parts/ Incomplete Application  Reply to Missing Parts under 37 CFR 1.52 or 1.53		a of Time Request  Abandonment Request  on Disclosure Statement  Copy of Priority  t(s)  Missing Parts/ te Application eply to Missing Parts	Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD Remarks Request for Certificate of Correct		Status Letter Other Enclosure(s) (please Identify below):  1. A copy of the front page of Patent 2. A copy of the front page of priority document 3. Copies of the Combined Declaration and Power of Attorney  ection of Office Mistake	
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm Name North America Intellectual Property Corporation						
Signature Wunters How		Winters Ho	a			
Printed name Winston Hsu		Winston Hsu				
Date		OCT 19	2006	Reg. No.	41,526	

Typed or printed name

Krystal Pan

Date

OCT 19 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). **TRANSMIT** 

For FY 2005

FEE

Complete if Known					
Application Number	10/065,967				
Filing Date	12/05/2002				
First Named Inventor	Yung-Huei Chen				
Examiner Name	RUBIN MARGARET R				
Art Unit	2816				
Attaman Danket No.	VIAPONEZLISA				

Applicant claims small entity status. See 37 CFR 1.27	Art Unit	2816		
TOTAL AMOUNT OF PAYMENT (\$) 0.00	Attorney Docket No.	VIAP0062USA		
METHOD OF PAYMENT (check all that apply)				
Check Credit Card Money Order Nor	ne Other (please id	entify):		
Deposit Account Deposit Account Number: 50-3105	•	lame.North America Intellect	ual Property Corporation	
For the above-identified deposit account, the Director is here	eby authorized to: (check a	all that apply)		
✓ Charge fee(s) indicated below		indicated below, excep	t for the filing fee	
Charge any additional fee(s) or underpayments of fee	e(s)	erpayments		
WARNING: Information on this form may become public. Credit card Info information and authorization on PTO-2038.	ormation should not be incl	uded on this form. Provide	e credit card	
FEE CALCULATION				
1. BASIC FILING, SEARCH, AND EXAMINATION FEES				
FILING FEES SEAF Small Entity	RCH FEES EXAI Small Entity	MINATION FEES Small Entity		
Application Type Fee (\$)			Fees Paid (\$)	
Utility 300 150 500	250 20	0 100		
Design 200 100 100	50 13	0 65		
Plant 200 100 300	150 16	0 80		
Reissue 300 150 500	250 60	0 300		
Provisional 200 100 0	0	0 0		
2. EXCESS CLAIM FEES		<u>Sı</u> Fee (\$)	mall Entity Fee (\$)	
Fee Description Each claim over 20 (including Reissues)		50	25	
Each independent claim over 3 (including Reissues)		200	100	
Multiple dependent claims		360	180	
•	e Paid (\$)	Multiple Depe	ndent Claims	
20 or HP = x =		Fee (\$)	Fee Paid (\$)	
HP = highest number of total claims paid for, if greater than 20.  Indep. Claims	Paid (\$)			
- 3 or HP = x =	<u>-</u>			
HP = highest number of independent claims paid for, if greater than 3.  3. APPLICATION SIZE FEE				
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer				
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50				
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)				
100 = / 50 (round <b>up</b> to a whole number) x =				
4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity)	discount)		Fees Paid (\$)	
Other (e.g., late filing surcharge):				

SUBMITTED BY Registration No. Telephone 3027291562 Signature Winter Hon 41,526 (Attorney/Agent) 19 2006 Date OCT Name (Print/Type) Winston Hsu

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.

US 6,937,688 B2

5 Issue date

8/30/2005

Application No.

10/065,967

**Applicant** 

Yung-Huei Chen, et al.

Date Filed

12/05/2002

TC/A.U.

2816

10 Examiner

Rubin Margaret R

Confirmation No.

3816

Docket No.

VIAP0062USA

Customer No.

27765

Title: STATE MACHINE, COUNTER AND RELATED METHOD FOR GATING REDUNDANT TRIGGERING CLOCKS ACCORDING TO INITIAL STATE

To:

Commissioner for Patents

20

30

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject:

Request for Certificate of Correction under 37 CFR 1.322

25 Dear Sir,

Upon reviewing the above-identified patent, patentee noted the foreign priority number should be corrected (see Attachment 1, the front page of letters patent). The prosecution procedure described below indicates this as an Office mistake of consequence. As the agent of record, I hereby request that a Certificate of Correction be issued under 37 CFR 1.322 to correct the foreign priority number from "TW 091173385" to "TW 091117385".

The examiner pointed out in the Office action dated 03/04/2004 that the filing number of the priority document submitted did not match the priority number cited in applicant's declaration. Actually, the filing number on the front page of priority document (Attachment 2) and the priority number cited in applicant's declaration (Attachment 3) were exactly the same. So in the response to Office action submitted on 05/26/2004, the applicant explained the pertinent fact and requested notification at the earliest possible convenience so that appropriate action could be taken. However, no further Office communication mentioned about priority problem. Then the Notice of Allowance dated 04/27/2005 was received. It was construed that the examiner had no objection against priority problem. The foreign priority number claimed by the applicant of above-identified patent should be TW 091117385.

15 Respectfully submitted,

5

10

Wintentan

Date: \_\_\_OCT 19 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

20 Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail: winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)

US 6,937,688 B2

Aug. 30, 2005

### (12) United States Patent Chen et al.

# (54) STATE MACHINE, COUNTER AND RELATED METHOD FOR GATING

(75) Inventors: Yung-Huei Chen, Taipei Hsien (TW); Shan-Ting Hong, Taipei Hsien (TW)

REDUNDANT TRIGGERING CLOCKS

Assignee: VIA Technologies Inc., Hsin-Tien

ACCORDING TO INITIAL STATE

- (TW)
- Subject to any disclaimer, the term of this (\*) Notice: patent is extended or adjusted under 35

U.S.C. 154(b) by 241 days.

- Appl. No.: 10/065,967
- (22)Filed: Dec. 5, 2002
- **Prior Publication Data** (65)

US 2004/0022347 A1 Feb. 5, 2004

Foreign Application Priority Data (30)

Aug. 1, 2002	(TW)		91173385 A
7		***	0217 01/16

U.S. CL ...... 377/116; 377/28; 377/33; (52)

377/34; 377/40; 377/104; 327/291; 327/295



Field of Search ...... 377/116, 104, 377/28, 33, 40, 34; 327/291, 295

References Cited (56)

(10) Patent No.:

(45) Date of Patent:

### U.S. PATENT DOCUMENTS

5,481,581 A	*	1/1996	Jonas, Jr	377/55
5,960,052 A	*	9/1999	Bombal et al	377/29
6,026,140 A		2/2000	Owen	377/51

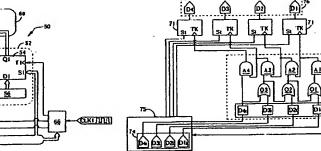
\* cited by examiner

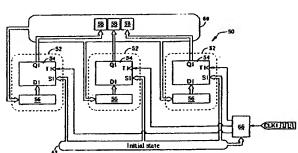
Primary Examiner-Margaret R. Wambach (74) Attorney, Agent, or Firm-Winston Hsu

**ABSTRACT** 

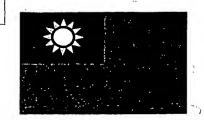
A state machine, a counter, and related method for gating redundant triggering clocks according to the initial states is provided. The state machine includes a plurality of state units and a clock gating circuit. Each of the state unit is triggered by a clock to generate a corresponding varying state, and the clock gating circuit is capable of selectively withholding a triggering clock to at least one state unit according only to an initial state, such that the selected state unit(s) will not be triggered by the triggering clock while the rest of the state units are triggered by the triggering clock to update their corresponding states.

#### 10 Claims, 8 Drawing Sheets





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# 中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE MINISTRY OF ECONOMIC AFFAIRS REPUBLIC OF CHINA

茲證明所附文件,係本局存檔中原申請案的副本,正確無訛,其申請資料如下:

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified here

申 請 日: 西元 <u>2002</u> 年 <u>08</u> 月 <u>01</u> 日 Application Date

申 請 案 號: 091117385 Application No.

申 請 人: 威盛電子股份有限公司 Applicant(s)

> 局 長 Director General



發文日期: 西元 2002 年 9

Issue Date

發文字號: 09111017832

Serial No.





Attachment 3

PATENT Docket no. <u>VIAP0062USA</u>

### **COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that

As a below named inventor, i hereby declare that.
I believe I am the sole ( if only one name appears below), or a joint ( if more than one name appears ), original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:  "STATE MACHINE, COUNTER AND RELATED METHOD FOR GATING REDUNDANT TRIGGERING CLOCKS ACCORDING TO INITIAL STATE"
+ The specification for the above entitled invention is filed herewith.
The specification for the above entitled invention was filed previously with application serial number: Filing Date:
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to the patentability of the invention disclosed in this application in accordance with Title 37, Code of Federal Regulations, Section 1.56 (a). I further acknowledge the duty in any continuation-in-part application to disclose to the Patent and Trademark Office all information known to be material to the patentability of the invention disclosed in this application, as defined in 1.56, which became available to me between the filling date of the prior application and the filing date of this application.  PRIORITY CLAIM
There is no claim of priority.
Tolaim of priority is based on the following:  Filting Date in Taiwan, P.O.C.: 2002/08/01  Friting No. in Taiwan, P.O.C.: 091117385  POWER OF ATTORNEY
POWER OF ATTORNEY
As a named inventor, I hereby appoint the following attorney to prosecute this application and to transact all related business in the Patent and Trademark Office:
Winston Hsu, Reg. No. 41,526 E-Mail: Winstonhsu@naipo.com.tw Mikelewis@naipo.com.tw
P.O. BOX 506 Merrifield, VA 22116 U.S.A. TEL: +886-2-8923-7350
Combined Declaration and Power of Attorney Page 1 of 2

F#NPO-P0001E-US

#### **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

	Yung-Huei Chen
Date: OCT. 21, 2002	
Printed Name:	Yung-Huei Chen
Post Office Address: _	8F, No.533, Chung-Cheng Rd., Hsin-Tien City.
and Residence:	Taipei Hsien, Taiwan, R.O.C.
Citizen of:	R.O.C.
D 1 0 1 39 3007	Shan-Ting Hong
Date: Oct. > 1 , >02	Shan-Ting Hong Shan-Ting Hong
Printed Name:	8F, No.533, Chung-Cheng Rd., Hsin-Tien City,
Post Office Address:	
and Residence:	R.O.C.
Citizen of:	<u> </u>
Date:	
Printed Name:	
Post Office Address:	
and Residence:	
Citizen of:	
Glazen Gr.	
Date:	
Printed Name:	
Post Office Address:	
and Residence:	
Citizen of:	
Date:	
Printed Name:	
Post Office Address:	
and Residence:	
Citizen of:	

Combined Declaration and Power of Attorney, Page 2 of 2

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